

Appln No.: 09/853,343 Page 2 of 5
Applica D: Bradley et al.
COMPONIONS AND METHODS FOR ARRAY-BASED
GENOMIC NUCLEIC ACID ANALYSIS OF BIOLOGICAL
MOLECULES

*2/5* 

$$(C_2H_5O)_3S_i$$
  $NH_2$   $+$   $N_aHSO_3$   $N_a$ 

 $\begin{array}{c|c} & H_5C_2O \\ NH\text{-}CH_2\text{-}CH_2\text{-}CH_2\text{-}S_i\text{-}O\text{-}S_i\text{-}\\ & H_5C_2O \\ N \\ & R \\ \end{array}$ 

FIG. 2

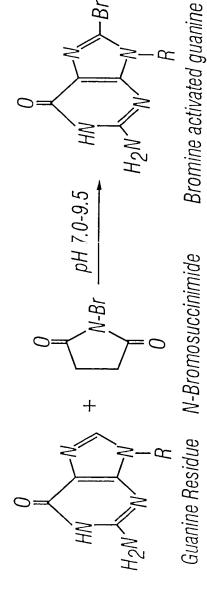
Br

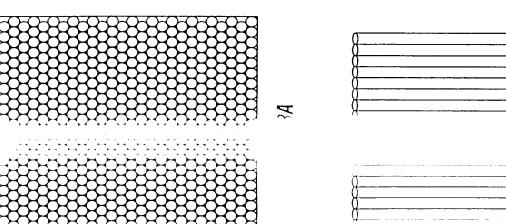
Armant(s): Bradley et al.

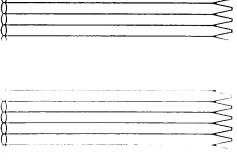
COLOSITIONS AND METHODS FOR ARRAY-BASED
GENOMIC NUCLEIC ACID ANALYSIS OF BIOLOGICAL MOLECULES

*3/5* 

DNA 
$$R_1$$
 DNA-R-Si- $R_2$   $R_3$  or  $R_3$  or  $R_4$  RNA-R-Si- $R_2$   $R_3$   $R_4$  RNA-R-Si- $R_2$   $R_3$   $R_4$   $R_5$ 







8

Appin No.: 09/853,343

Appin nt(s): Bradley et al.

COL DSITIONS AND METHODS FOR ARRAY-BASED
GENOMIC NUCLEIC ACID ANALYSIS OF BIOLOGICAL
MOLECULES

4/5

$$NH_2$$
 $NH_2$ 
 $NH_2$ 

Cytosine Residue N-Bromosuccinimide

Bromine activated cytosine

FIG. 5B

Bromo-DNA 
$$+H_2N$$
  $Si(OEt)_3$   $H$  or  $Si(OEt)_3$   $H$   $Si(OEt)_3$   $Si(OEt)_3$   $H$   $Si(OEt)_3$   $Si(OEt)_3$ 

FIG. 5C

Appin No.: 09/853,343

Appin Int(s): Bradley et al.

CO DSITIONS AND METHODS FOR ARRAY-BASED
GENOMIC NUCLEIC ACID ANALYSIS OF BIOLOGICAL
MOLECULES

*5/5* 

FIG. 7